

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/23/2014 10/23/2014	Herman Phillips

LM Start		Rating **	A	Issue No.	4		
LM End		Issue Type +	Ma	Location *	CR		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Operations & Maintenance Manuals				°		°
					°		°
DWR ID	DWR_RD2060_01_f_2014_4						
Action/Comments							
Inspector Comments: RD 2060 has the O&M Manual on file.							

No Photos

LM Start		Rating **	A	Issue No.	7		
LM End		Issue Type +	Ma	Location *	CR		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Emergency Supplies & Equipment				°		°
					°		°
DWR ID	DWR_RD2060_01_f_2014_7						
Action/Comments							
Inspector Comments: RD 2060 has emergency supplies on hand.							

No Photos

LM Start		Rating **	A	Issue No.	12		
LM End		Issue Type +	Ma	Location *	CR		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				°		°
					°		°
DWR ID	DWR_RD2060_01_s_2012_12						
Action/Comments							
Inspector Comments: RD 2060 has trained staff for a flood fight.							

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Lindsey Slough	Left	6.97	10/23/2014 10/23/2014	Herman Phillips

LM Start	0.00	Rating **	A	Issue No.	3
LM End	6.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.247325 °	38.274841 °
				-121.696303 °	-121.794855 °
DWR ID	DWR_RD2060_01_f_2014_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2014_RD2060_241_3_20141027_00002.jpg



Looking downstream landside levee slope was cleaned and dragged by District. Levee mile 0.00 Unit 1

LM Start	0.56	Rating **	M	Issue No.	14
LM End	0.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.248630 °	38.248617 °
				-121.706403 °	-121.706667 °
DWR ID	DWR_RD2060_01_s_2012_14				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: District has placed some more rock in this area, they will place more later. 3-08-2011 viewed the erosion site, this site is still active. The district says that they will make repairs end of April or May 2011.					

No Photos

LM Start	1.70	Rating **	M	Issue No.	1
LM End	1.70	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.256535 °	38.257517 °
				-121.724753 °	-121.724823 °
DWR ID	DWR_RD2060_01_f_2014_1				
Action/Comments					
Inspector Comments: 2011 - Multiple erosion pockets. Deep cracks throughout site could lead to further bank failure. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: LDS_1-9_L]					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/23/2014 10/23/2014	Herman Phillips

LM Start	1.90	Rating **	M	Issue No.	9
LM End	1.90	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.256664 °	38.256664 °
				-121.721535 °	-121.721535 °
DWR ID	DWR_RD2060_01_s_2013_9				
Action/Comments					
Note and monitor erosion site. Inspector Comments: District has plans to bring material to be placed at site along with more rock, stated during the inspection 3-28-2013.					

No Photos

LM Start	1.91	Rating **	M	Issue No.	13
LM End	1.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.256664 °	38.256664 °
				-121.724536 °	-121.724536 °
DWR ID	DWR_RD2060_01_s_2013_13				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: It appears that this site is also active. Spring inspection 2013.					

No Photos

LM Start	1.92	Rating **	M	Issue No.	16
LM End	1.92	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.256766 °	38.256766 °
				-121.724552 °	-121.724552 °
DWR ID	DWR_RD2060_01_s_2013_16				
Action/Comments					
Note and monitor erosion site. Inspector Comments: At this location the material is soft and this site is much like the one at L/M 1.90 and L/M 1.91. District is aware of the sites and repairs are being planed.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/23/2014 10/23/2014	Herman Phillips

LM Start	2.34	Rating **	M	Issue No.	2
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.257224 °	38.257319 °
				-121.731953 °	-121.732423 °
DWR ID	DWR_RD2060_01_f_2014_2				
Action/Comments					
Inspector Comments: 2011 - Two erosion pockets from rotational failures. Very soft soil. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: LDS_2-4_L]					

No Photos

LM Start	2.40	Rating **	U	Issue No.	17
LM End	2.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.259254 °	38.259254 °
				-121.727257 °	-121.727257 °
DWR ID	DWR_RD2060_01_s_2013_17				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: District is aware of the problem, they are scheduling the area to be repaired 2014. During my inspection 10-23-2014 no new repairs has been done at this location. No new photo taken of site.					

Photo 1 of 1 : FA_2014_RD2060_241_17_20141027_00001.jpg



From RD 536 Looking across channel at RD 2060 Unit 1 erosion site levee mile 2.40 scour hole up to 20' deep and more than 50 feet across. Photo taken 10-08-2013. This erosion site is still active, District has it scheduled for repairs 2014.

LM Start	2.49	Rating **	M	Issue No.	18
LM End	2.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.257407 °	38.257407 °
				-121.732002 °	-121.732002 °
DWR ID	DWR_RD2060_01_s_2013_18				
Action/Comments					
Note and monitor erosion site.					

No Photos

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Unit No. 01 Lindsey Slough	Left	6.97	10/23/2014 10/23/2014	Herman Phillips

LM Start	5.07	Rating **	M	Issue No.	6
LM End	5.07	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.263157 °	38.263157 °
				-121.771543 °	-121.771543 °
DWR ID	DWR_RD2060_01_s_2012_6				
Action/Comments					

No Photos

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+ Issue Type
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Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	10/23/2014 10/23/2014	Herman Phillips

LM Start	0.00	Rating **	M	Issue No.	10
LM End	3.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.274841 °	38.296651 °
				-121.794855 °	-121.748801 °
DWR ID	DWR_RD2060_02_f_2014_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Looking downstream from landside slope.					

Photo 1 of 1 : FA_2014_RD2060_242_10_20141027_00005.jpg



Looking downstream from landside of levee slope.

LM Start	0.16	Rating **	M	Issue No.	8
LM End	1.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.276922 °	38.288348 °
				-121.795955 °	-121.776932 °
DWR ID	DWR_RD2060_02_f_2014_8				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.21	Rating **	M	Issue No.	9
LM End	2.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277600 °	38.288627 °
				-121.795975 °	-121.776823 °
DWR ID	DWR_RD2060_02_f_2014_9				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

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+ Issue Type
 Ma : Maintenance Deficiency
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/23/2014 10/23/2014	Herman Phillips

LM Start	0.00	Rating **	C	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.296651 °	38.296651 °
				-121.748801 °	-121.748800 °
DWR ID	DWR_RD2060_03_s_2012_7				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.296651 °	38.296651 °
				-121.748800 °	-121.748800 °
DWR ID	DWR_RD2060_03_f_2014_15				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The District has mowed both levee slopes landward and waterward, starting from levee mile 0.00 heading downstream.					

Photo 1 of 1 : FA_2014_RD2060_243_15_20141201_00014.jpg



Looking downstream from levee mile 0.00 landside levee slope, grasses has been mowed both landside and waterside.

LM Start	1.51	Rating **	M	Issue No.	10
LM End	1.60	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.288598 °	38.286051 °
				-121.725184 °	-121.722818 °
DWR ID	DWR_RD2060_03_f_2014_10				
Action/Comments					
Inspector Comments: Site added in 1997 and removed in 2003. 2005 - Put back in the inventory. 2006 - Stone repair at the middle of the site. 2011 - Some rock place at toe in the past year. 2013: Site extended both upstream and downstream to include new erosion pockets. [2013 Site ID: CHS_23-6_R]					

Photo 1 of 1 : FA_2014_RD2060_243_10_20141008_00008.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/23/2014 10/23/2014	Herman Phillips

LM Start	2.34	Rating **	M	Issue No.	5
LM End	2.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.280356 °	38.278214 °
				-121.714697 °	-121.712857 °
DWR ID	DWR_RD2060_03_f_2014_5				
Action/Comments					
Inspector Comments: 2008 - Small scour pockets and mid-slope wave wash. 2010 - More vegetation growth, could be fixed through maintenance. 2011 - Site extended downstream and new erosion. 2013: No observed changes. [2013 Site ID: CHS_22-6_R]					

Photo 1 of 1 : FA_2014_RD2060_243_5_20141008_00003.jpg



USACE 2013 Photo #1

LM Start	2.54	Rating **	M	Issue No.	4
LM End	2.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.278109 °	38.277754 °
				-121.712671 °	-121.712144 °
DWR ID	DWR_RD2060_03_f_2014_4				
Action/Comments					
Inspector Comments: 2013: Erosion pockets into the levee toe. [2013 Site ID: CHS_22-5_R]					

Photo 1 of 1 : FA_2014_RD2060_243_4_20141008_00002.jpg



USACE 2013 Photo #1

LM Start	3.28	Rating **	A/W	Issue No.	12
LM End	3.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.270863 °	38.270324 °
				-121.706800 °	-121.705904 °
DWR ID	DWR_RD2060_03_s_2012_12				
Action/Comments					
Environmental Requirements. Inspector Comments: There was a fire this spring that burned this revegetation site, during the 2012 inspection new growth has sprouted up. During the 2013 inspection new sprouts continue to come up.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/23/2014 10/23/2014	Herman Phillips

LM Start	3.67	Rating **	M	Issue No.	1
LM End	4.08	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.264585 °	38.260593 °
				-121.698868 °	-121.696403 °
DWR ID	DWR_RD2060_03_f_2014_1				
Action/Comments					
Inspector Comments: 2011 - Several pockets of erosion from rotational failure and slumping toe. 2013: Site extended downstream to include new erosion pockets. [2013 Site ID: CHS_21-1_R]					

Photo 1 of 1 : FA_2014_RD2060_243_1_20141008_00001.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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